

US006587404B1

(12) United States Patent

Keller et al.

(10) Patent No.:

US 6,587,404 B1

(45) Date of Patent:

*Jul. 1, 2003

(54) OPTICAL STORAGE DEVICE CAPABLE OF RECORDING A SET OF SOUND TRACKS ON A COMPACT DISC

(75) Inventors: Peter J. Keller, Lake Forest, IL (US);
Michael J. Kelley, Arlington Heights,
IL (US); Rimas M. Buntinas,
Evanston, IL (US); John M. Lahr,
Barrington, IL (US)

(73) Assignee: Advanced Audio Devices, LLC, Lake

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35

U.S.C. 154(b) by 0 days.

Forest, IL (US)

This patent is subject to a terminal disclaimer.

(21) Appl. No.: 09/641,200

(22) Filed: Aug. 17, 2000

Related U.S. Application Data

- (63) Continuation-in-part of application No. 09/111,989, filed on Jul. 8, 1998.
- (60) Provisional application No. 60/051,999, filed on Jul. 9, 1997.

30.07, 30.28, 30.32, 30.27, 30.05, 33.01, 34.01, 30.19

(56) References Cited

U.S. PATENT DOCUMENTS

4,375,083 A	2/1983	Maxemchuk
4,823,333 A	4/1989	Satoh et al.
5,253,234 A	* 10/1993	Ogawa et al 369/36
5,325,352 A	6/1994	Matsumoto
5,414,688 A	5/1995	Inokuchi
5,418,762 A	* 5/1995	Kitayama 369/13

5,473,595	Α	12/1995	Hayashi et al.
5,481,509	Α	1/1996	Knowles
5,490,125	Α	2/1996	Takada et al.
5,493,548	Α	2/1996	Kamloka
5,586,093	Α	12/1996	Honda et al.
5,587,978	Α	12/1996	Endo et al.
5,608,707	Α	3/1997	Ogawa et al.
5,610,893	Α	3/1997	Soga et al.
5,633,839	Α	5/1997	Alexander et al.
5,732,059	Α	3/1998	Katsuyama et al.
5,740,134	Α	4/1998	Peterson
5,777,811	Α	7/1998	Bodo
5,790,498	Α	8/1998	Jeong
5,792,971	Α	8/1998	Timis et al.
5,892,738	Α	 4/1999 	Hirao et al 369/37
5,959,944	Α	9/1999	Dockes et al.
5,963,530	Α	10/1999	Ward
6,086,380	Α	7/2000	Chu et al.
6,147,940	Α	11/2000	Yankowski
6,147,950	Α	* 11/2000	Sakamoto et al 369/84
6,163,508	Α	12/2000	Kim et al.
6,201,771	B 1	* 3/2001	Otsuka et al 369/30

OTHER PUBLICATIONS

The text of a website which was available at least as early as Jun. of 1998 and which describes a device called "The Little Black Rack".

* cited by examiner

Primary Examiner—Tan Dinh (74) Attorney, Agent, or Firm—Trexler, Bushnell, Giangiorgi, Blackstone & Marr, Ltd.

(57) ABSTRACT

Disclosed is a compact disc recording device that includes a housing, sound receiving means for receiving audio signals, a compact disc recorder for recording onto a compact disc, and data storage structure in the housing for storing audio signals. The compact disc recording device is configured such that a music library of sound tracks is storable in the data storage structure, and the compact disc recording device includes means for selecting a set of sound tracks from the music library to be recorded onto a compact disc by the compact disc recorder. The housing includes a display which identifies at least one sound track of the music library.

52 Claims, 14 Drawing Sheets

